

MAIL STOP - PCT  
Attorney Docket No.: 27465U  
Date: Aug 2, 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

KARVINEN, et al.

Application No.: Not Yet Assigned

Filed: Aug 2, 2006

Intl. Application No.: PCT/FI2005/000074

Intl. Filing Date: February 4, 2005

Title: **TITANIUM OXIDE PRODUCT METHOD FOR MAKING THE SAME AND ITS USE AS A PHOTOCATALYST**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

An Information Disclosure Statement is submitted herewith pursuant to 37 C.F.R. 1.97-1.98. Please note the following particulars: [NOTE: One only of items a, b, c, and d must be checked.]

- a. ☒ [XXX] The enclosed statement is being filed within three months of the filing date of a national application, or within three months of the date of entry into the national stage as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing date of a first Office Action on the merits, whichever event occurs last.
- b. ☐ [ ] The enclosed statement is being filed after a first action on the merits but before the mailing date of a final action under 37 C.F.R. 1.113, or a notice of allowance under 37 C.F.R. 1.311.  
The enclosed statement is accompanied by [check one]:  
  - ☐ i. a certification in part (e) below as specified in 37 C.F.R. 1.97(e), or
  - ☐ ii. a check in the amount required by 37 C.F.R. 1.17(p).
- c. ☐ [ ] The enclosed statement is being filed after the mailing date of a final action under 37 C.F.R. 1.113, or a notice of allowance under 37 C.F.R. 1.311, but before payment of the issue fee.  
  - ☐ [ ] Certification report(e) below; and
  - ☐ [ ] a check in the amount as required by 1.17(p).

- d. ☐ The enclosed statement is being filed pursuant to 37 C.F.R. 1.97(i), for placement in the file.
- e. Certification ☐ [Check one] [Certification is required only if box (b) (i) or box (c) is checked.]

☐ I hereby certify that each item of information contained in the enclosed Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement,  
or

☐ I hereby certify that no item of information in the enclosed Information Disclosure Statement herewith was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

or

- ☐ Appropriate certification is attached.
- f. ☐ [XXX] If no check is enclosed and a fee is due in connection with this communication or if the check enclosed is insufficient, the Commissioner is authorized to charge any fee or additional fee due in connection with this communication to Deposit Account No. 14-0112.
- g. ☐ [XXX] Copies of the documents are attached herewith with a completed Form PTO-1449.

☐ or  
☐ Copies of the documents are not attached as allowed under CFR 1.98(d)(1)(2). The earlier application is identified as:

and / or  
☐ [XXX] Copies of US Patents/Publications not attached as allowed in Official Gazette Aug. 5, 2003/ Vol. 1273, no. 1.

The Examiner is respectfully requested to cite the documents listed on the attached Form PTO-1449 in the next Office Action. In so doing, the Examiner is respectfully requested to initial in the space adjacent to the listing of each document on the Form PTO-1449, and

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AP20 Rec'd PCT/PTO 02 AUG 2036

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return a copy of the initialed Form PTO-1449 with the next communication to Applicants, to confirm that these documents have been considered by the Examiner and made of record in this application.

If the Examiner has any questions or wishes to discuss this application, kindly telephone the undersigned at the below-listed number.

Respectfully submitted,  
**NATH & ASSOCIATES PLLC**

By: 

Gary M. Nath  
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<b>FORM PTO-1449</b>		In re Application of: <b>KARVINEN, et al.</b>		<b>10/588216</b> <small>Art. Unit: Unknown</small>
<b><u>INFORMATION DISCLOSURE</u></b> <b><u>CITATION</u></b>		Application No: Not Yet Assigned	Filed: _____	Examiner: Unknown

  

U.S. PATENT DOCUMENTS				
Examiner Initial	Document Number	Issue / Publication Date	Inventor	Filed
/S.H./	A1	3,329,484	July 4, 1967	Long et al.
	A2	3,549,322	December 22, 1970	Klein et al.
	A3	4,923,682	May 8, 1990	Roberts et al.
	A4	4,944,936	July 31, 1990	Lawhorne
	A5	5,024,827	June 18, 1991	Jones et al.
	A6	6,001,326	December 14, 1999	Kim et al.
	A7			
	A8			
	A9			

  

FOREIGN PATENT DOCUMENTS				
Examiner Initial	Document Number	Publication Date	Country	Translation
/S.H./	A10	0 376 216 A1	July 4, 1990	EP
	A11	0 505 022 A1	September 23, 1992	EP
	A12	1 095 908 A1	May 2, 2001	EP
	A13	1 178 011 A1	February 6, 2002	EP
	A14	1 205 243 A1	May 15, 2002	EP
	A15	2001025628 A	April 6, 2001	KR
	A16	2002078637 A	October 19, 2002	KR
	A17	2002083652 A	November 4, 2002	KR

  

OTHER	
Examiner Initial	(Including Author, Title, Date, Pertinent Pages, etc.)
/S.H./	A18 Song, J.S., et al., "Redox Abilities of Rutile TiO <sub>2</sub> Ultrafine Powder in Aqueous Solutions", <b>METALS AND MATERIALS International</b> , Vol. 8, No. 1, Pps. 103-109, (2002).
/S.H./	A19 Li, Y., et al., "A novel method for preparation of nanocrystalline rutile TiO <sub>2</sub> powders by liquid hydrolysis of TiCl <sub>4</sub> ", <b>J. Mater. Chem.</b> , Vol. 12, Pps. 1387-1390, (2002).
	A20
	A21

  

Examiner  /Serena Hanor/	Date Considered  08/14/2008
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP ' 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.